

ASDSF  
20.2.4.4 V4



5129 N. Shirley St. Suite 100, Ruston, WA 98407

May 15, 2011

Mr. Kevin L. Rochlin  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue, ECL-111  
Seattle, WA 98101

RE: Monthly Report: No. 179, April 2011  
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen  
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology  
Evan Griffiths - CH2MHill (2 copies)  
Leslie Ann Rose - Citizens for a Healthy Bay



Monthly Report 179, April 2011

Operable Unit 02

Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Met with EPA on April 22<sup>nd</sup> for EPA coordination meeting.
2. Conducted EPA and City of Tacoma Water Dept. pre-con for MICMP water  
Completed City of Tacoma LID reimbursement for sanitary sewer costs;  
continue to work on planning for next phase of LID infrastructure  
construction (Water, and TPU power).
3. Erosion control BMP's were maintained after storm events, including  
replacement of silt fences and exclusion zone fence. On-going site  
maintenance continues.
4. Continued weekly site-inspection reports (see attached).
5. Maintained clean work area and road.
6. Remedial Action activities continued.
7. Training activities include the following:
  - Site Safety Orientations (Clean Zone) was held for personnel of the  
following companies:
    - i. Three (3) S&S Tire Company employees
    - ii. One (1) Tire Distribution Systems employee
    - iii. Two (2) Town of Ruston employees
    - iv. Two (2) City of Tacoma employees
    - v. Two (2) HD Fowler employees
    - vi. Two (2) TP Trucking employees
    - vii. One (1) Cunha Trucking employee
    - viii. One (1) P&S Transportation employee
    - ix. One (1) System Trucking employee
    - x. One (1) Central Oregon Truck Company employee
    - xi. One (1) NC Machinery employee
  - Site Specific Safety Training (Exclusion Zone) was held for personnel of  
the following companies:
  - HAZWOPER Basic training was verified or completed by personnel of  
the following companies:
  - HAZWOPER annual retraining was verified or completed by personnel  
of the following companies:
    - i. One (1) GeoResources employee
    - ii. Two (2) Point Ruston employees
    - iii. One (1) Olson Brothers employee
  - Other relevant monitoring or training was verified or completed by  
personnel of the following companies:

*B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.*

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston on April 11<sup>th</sup>, 18<sup>th</sup>, 25<sup>th</sup>, and May 2<sup>nd</sup>. Results from samples collected are attached. There were no exceedances.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 106 gallons per day on the LCRS. Shipment pending. Sample sent for feasibility analysis for wastewater ion exchange service (WWIX).
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring will resume when the weather allows the site to dry out. Perimeter air monitoring was conducted in April on the 12<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> during remediation activities. Results for samples collected in April are attached. There were no exceedances.

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4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on April 1<sup>st</sup>, 7<sup>th</sup> and 20<sup>th</sup> during Ruston Way remediation activities. Results for samples collected are attached. There were no exceedances.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:

- **Point Ruston Grade and Site Cap (Hydrometrics 2008)** – received EPA approval
- **Temporary Cap Plan** – received conditional EPA approval, pending Site Wide Storm Water Plan. Temp Cap Test pad plan to be instituted within 30-60 days (weather dependent)
- **Site Wide Storm Water Plan** -- to be submittal within 30 to 60 days as part of the Temporary Cap Plan (Hydrometrics 2011)
- **BNSF Excavation & RA Plan** – received EPA approval; work ongoing
- **Sequence of Development and Occupancy Plan (SDOP)** – continuing edits and restructuring
- **Ruston Way SAP** – EPA approved, and work completed
- **Operations Maintenance, and Monitoring Plan (OMMP)** – continuing edits and restructuring
- **CC&Rs and HOA OMMP budget** – continuing edits and restructuring
- **Phase 1 Construction Management Plan (CMP)** – received EPA approval; working on edits and restructuring for re-submittal to include updated RA for site improvements
- **Master Infrastructure CMP** – EPA approved, work ongoing
- **Waterwalk CMP** - drafting ongoing

2. Remedial Action included the following tasks:

- OCF construction activities:
  - Maintained leachate collection system.
  - Inspected storm drain system, vaults and cover.
  - Excavated excess clean fill materials for Yacht Club Road construction, as well as former Commencement Condominium's fill material. Latter to be graded and hydro seeded within 30 to 60 days.
- Stack Hill construction activities:
  - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area.

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- Maintained site perimeter fence and signage at the north end of Stack Hill.
- Site-wide remediation/redevelopment activities:
  - Continued surface water controls
  - Maintained onsite haul roads and stockpiles
  - Maintained erosion and surface water controls; Inspected and repaired silt fence along Ruston Way
  - Continued site-wide dust monitoring and control through site and access road watering, as needed
  - Maintained air-monitoring program per CH&SP
  - Completed shoreline armoring inspection
  - Completed review of OCF maintenance logs

*D. Actions scheduled for the next six weeks.*

1. Complete BNSF RA excavation – scheduled to be completed May 27<sup>th</sup>
2. Continue construction of MICMP water and power infrastructure components. Storm, Roadway, Ruston Power, Lighting and Landscaping (LID Phase 2) tentatively anticipated to begin in late June/early July.
3. Continue CH&SP air monitoring during RA activities.
4. The BNSF Remedial Action Plan has been approved and the excavation is ongoing in conjunction with the other MICMP work. As-built drawings to be submitted to EPA following completed for expedient approval to allow BNSF property transfer to Point Ruston for the right-of-way.
5. Point Ruston to submit plans and as-built drawings regarding the Ruston Way cap based on final SAP results from BNSF RA and Ruston Way ROW property.
6. Continue to work on plans associated with Institutional Controls for the site, including Sequence of Development and Occupancy Plan, CC&Rs, and other HOA related documents as required per the Consent Decree.
7. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan (“OMMP”)
8. Continue to work on response to EPA comments regarding the Point Ruston CC&Rs
9. Conduct Shoreline Armoring Inspection
10. Review OCF inspection protocols.

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11. Review groundwater monitoring protocols and requirements for the site.
12. Continue discussions with Metro Parks Tacoma on extension of Yacht Club Road and closure of Waterfront Drive, and offsite environmental liabilities.
13. Continue discussions with DNR regarding offsite liabilities for sediments and other aquatic lands.

The following Remedial Action tasks are planned to continue:

**RA Monitoring:**

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities (not conducted during wet weather conditions when no work is underway).

**OCF OMMP activities:**

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

**Stack Hill construction activities:**

- a. Erosion controls and site maintenance
- b. Continue home construction

**Site-wide construction activities:**

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure

*E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.*

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID processes are ongoing.
2. Point Ruston is coordinating with BNSF to secure a quit claim deed for the area adjacent to Ruston Way; Point Ruston submitted EPA completion letter for SAP, and the second closing is pending.

*F. Modifications to work plans or schedules proposed to or approved by EPA.*

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.

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2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site.

*G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.*

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues to work with MetroParks to incorporate the capping component into the Peninsula Park design. Point Ruston has responded to Metro Parks draft engineering analysis for the Peninsula Park site.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. Completed emergency access agreement between Tacoma Yacht Club and Point Ruston.



# Weekly Site Inspection Report No. 2011-0403

Week of: 4/3 - 9, 2011

Inspector: Tim Rusher

## Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	(G)	F	P	Y	(N)	ADDED LOCKABLE PEDESTRIAN GATE
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	ADDED "NO TRESPASS" SIGNS ALONG RUSTON WAY
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	UNIT #105 SPONS PILED, PACKED + SILT FENCED.
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	(SEE NOTES)
Zone Separation	(G)	F	P	Y	(N)	DAILY MAINTENANCE AS NEEDED
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	G	F	(P)	Y	(N)	
Lower Site	G	F	(P)	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No



**Weekly Site Inspection Report No. 2011-0403**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** FENCING: REMOVED PERM. FENCE FROM OLD MAIN GATE SOUTH ALONG RUSTON WAY (LEFT POSTS TO SUPPORT TEMP FENCE). INSTALLED TEMP. PERIMETER FENCING. SIGNAGE: ADDED SIGNS TO NEW TEMP. FENCE ALONG RUSTON WAY.

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 3	N	N	NO RA ACTIVITY, WET CONDITIONS.
Mon 4	N	N	RUSTON WAY RA ACTIVITY, WET CONDITIONS. (FENCE)
Tue 5	N	N	RUSTON WAY RA ACTIVITY, WET CONDITIONS. SHAPING STOCKPILE
Wed 6	N	N	BUILD RAMP RA ACTIVITY, WET CONDITIONS.
Thu 7	N	Y	PERSONAL AIR MONITORING (RUSTON WAY REMEDIATION) EQUIPMENT DECON.
Fri 8	N	N	RUSTON WAY RA ACTIVITY, WET CONDITIONS
Sat 9	N	N	NO RA ACTIVITY. WET SOIL CONDITIONS.

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 3	39°/48°	SSW WIND 5MPH/GUST 11MPH, PRECIPITATION 0.08" (LATE EVE)
Mon 4	40°/47°	SSW WIND 6MPH/GUST 21MPH, PRECIPITATION 0.24" (SCATTERED ALL DAY)
Tue 5	39°/48°	SSW WIND 8MPH/GUST 19MPH, PRECIPITATION 0.23" (AFTERNOON - MIDNIGHT)
Wed 6	36°/46°	SSW WIND 6MPH/GUST 12MPH, PRECIPITATION 0.14" (SCATTERED)
Thu 7	35°/47°	NNE WIND 2MPH/GUST 17MPH, PRECIPITATION 0.05" (MORN.)
Fri 8	33°/54°	NORTH WIND 2MPH/GUST 14MPH, NO PRECIPITATION
Sat 9	42°/53°	SW WIND 6MPH/GUST 19MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 4/11/11 ✓

SIGNED: 

Tim R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



# Weekly Site Inspection Report No.

2011-0410

Week of: 4/10 - 16, 2011

Inspector: Tim Rusher

## Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	INSTALLING AS NEEDED DURING SOIL ACTIVITY.
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	G	F	P	Y	N	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	DAMP TO WET
(Other)	G	F	P	Y	N	WET TO MUDDY
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	G	F	(P)	Y	(N)	
Lower Site	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

**Weekly Site Inspection Report No. 2011-0410**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						ADDRESSING COMMENTS.....
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 10	N	N	WET CONDITIONS
Mon 11	N	N	WET CONDITIONS
Tue 12	Y	N	BACK FILL UNIT 109. PREP FOR RA UNITS 113, 114, 115
Wed 13	Y	N	FILTERS NOT SUBMITTED. NO WORK ACTIVITY. VOIDED
Thu 14	N	N	WET CONDITIONS
Fri 15	N	N	WET SITE CONDITIONS
Sat 16	N	N	WET SITE CONDITIONS

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 10	42°/54°	SSW WIND 6MPH/GUST 21MPH, PRECIPITATION 0.2" (SCATTERED MORNING & EVENING)
Mon 11	38°/49°	SW WIND 8MPH/GUST 15MPH, PRECIPITATION 0.01" (EARLY MORNING & NOON)
Tue 12	33°/54°	NW WIND 3MPH/GUST 9MPH, NO PRECIPITATION
Wed 13	39°/47°	SSW WIND 5MPH/GUST 17MPH, PRECIPITATION 0.14" (MORNING - AFTERNOON)
Thu 14	39°/46°	SSW WIND 6MPH/GUST 16MPH, PRECIPITATION 0.23" (AFTERNOON - EVENING)
Fri 15	39°/50°	NNE WIND 2MPH/GUST 8MPH, PRECIPITATION 0.12" (SCATTERED)
Sat 16	40°/53°	SW WIND 6MPH/GUST 16MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 4/18/11

SIGNED: 

Tim R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2011-0417

Week of: 4/17 – 23, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	Moist To Wet
Excavation area	(G)	F	P	Y	(N)	WET To Muddy
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	G	F	P	Y	N	REMOVED
Lower Site	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

**Weekly Site Inspection Report No. 2011-0417**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						
Site Superintendant	G	F	P	Y	N	SLOW PROGRESS!
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: <sup>4-18-11</sup> PEELED BACK VEGETATION ON OLD BENNETT ST. PARKING ON OCF

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 17	N	N	NO RA ACTIVITY.
Mon 18	N	N	NO RA ACTIVITY.
Tue 19	N	N	NO RA ACTIVITY.
Wed 20	Y	Y	RA ACTIVITY. EXCAVATE, SAMPLE & FILL UNITS 113, 114 & 115.
Thu 21	Y	N	RA ACTIVITY. MORE FILL ON UNITS ABOVE. EXCAVATE, SAMPLE & FILL UNIT 112.
Fri 22	N	N	NO RA ACTIVITY
Sat 23	N	N	NO RA ACTIVITY

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 17	35°/53°	WEST WIND 3MPH/GUST 11MPH, NO PRECIPITATION
Mon 18	36°/52°	SSW WIND 4MPH/GUST 15MPH, PRECIPITATION 0.18" (EARLY MORNING & EVE)
Tue 19	35°/54°	SW WIND 4MPH/GUST 9MPH, NO PRECIPITATION
Wed 20	39°/53°	NNE WIND 4MPH/GUST 11MPH, NO PRECIPITATION
Thu 21	36°/54°	SW WIND 6MPH/GUST 16MPH, PRECIPITATION 0.02" (EARLY MORNING)
Fri 22	37°/55°	NNE WIND 3MPH/GUST 10MPH, NO PRECIPITATION
Sat 23	43°/67°	NORTH WIND 4MPH/GUST 14MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 4/25/11

SIGNED: 

TIM K.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



# Weekly Site Inspection Report No.

2011-0424

Week of: 4/24 - 30, 2011

Inspector: Tim Rusher

## Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	ADDED SIGNS TO BNSF-RA AREA
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	CONSTRUCT BERM FOR BNSF STOCKPILE
Waddles	(G)	F	P	Y	(N)	INSTALLED WADDLES ON UCF SLOPE.
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	BNSF FENCING INSTALLED
Zone Separation	(G)	F	P	Y	(N)	" " "
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
<del>Stack Hill</del>	<del>G</del>	<del>F</del>	<del>P</del>	<del>Y</del>	<del>N</del>	
Lower Site	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

**Weekly Site Inspection Report No. 2011-0424**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						IN PROGRESS
Site Superintendant	G	(F)	P	(Y)	N	
Construction Super.	G	(F)	P	(Y)	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:**

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 24	N	N	NO RA ACTIVITY. WET CONDITIONS
Mon 25	N	N	NO RA ACTIVITY. WET CONDITIONS
Tue 26	N	N	No Activity - WET CONDITIONS
Wed 27	N	N	No Activity - WET CONDITIONS
Thu 28	N	N	NO RA ACTIVITY
Fri 29	N	N	No Activity
Sat 30	N	N	NO RA ACTIVITY

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 24	45°/54°	SSW WIND 5MPH/GUST 15MPH, PRECIPITATION 0.12" (AFTERNOON & EVE)
Mon 25	43°/51°	SW WIND 6MPH/GUST 17MPH, PRECIPITATION 0.52" (ALL DAY SCATTERED)
Tue 26	40°/55°	SSW WIND 5MPH/GUST 15MPH, NO PRECIPITATION.
Wed 27	37°/51°	SSW WIND 6MPH/GUST 11MPH, PRECIPITATION 0.10" (MORN. & AFTERNOON-EVE)
Thu 28	37°/48°	SSW WIND 6MPH/GUST 14MPH, PRECIPITATION 0.01" (EARLY MORNING)
Fri 29	38°/55°	SW WIND 4MPH/GUST 10MPH, NO PRECIPITATION
Sat 30	42°/57°	EAST WIND 2MPH/GUST 6MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 5/2/2011

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



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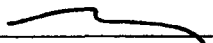
04/22/2011

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)  
Sample Matrix: Filter  
Date Sampled: 04/12/2011  
Date Received: 04/18/2011  
Spectra Project: 2011040347

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
8230563	1	Arsenic	< 0.05	µg/m3	SW846 6010B
8230563	1	Lead	< 0.05	µg/m3	SW846 6010B
8230562	2	Arsenic	< 0.05	µg/m3	SW846 6010B
8230562	2	Lead	< 0.05	µg/m3	SW846 6010B
8230561	3	Arsenic	< 0.05	µg/m3	SW846 6010B
8230561	3	Lead	< 0.05	µg/m3	SW846 6010B

SPECTRA LABORATORIES

  
Steve Hibbs, Laboratory Manager

a7/scj

Page 1 of 1



## CHAIN OF CUSTODY RECORD

POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

2011040347

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
AIR MONITORING		POINT RUSTON, LLC (H1-VOL)		AS PD			
SAMPLERS: (Signature)		(Signature)					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
4/12/11	SG		✓		8230563	1	✓
4/12/11	CF-VI		✓		8230562	1	✓
4/12/11	CF-NW		✓		8230561	1	✓
4/18/11	H1-VOLUME SAMPLER LOG				1 PAGE	CFM DATA FOR LISTED FILTERS	
THANK YOU							
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
(Signature)		4/18/11 @ 1557		(Signature)		Shipped via: Fed Ex, UPS or Other DROP OFF	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks	
(Signature)				(Signature)			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
(Signature)						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples:						Signature	
[ ] Accepted [ ] Declined							



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MAY 10 2011

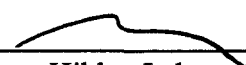
05/05/2011

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)  
Date Received: 04/27/2011  
Spectra Project: 2011040552

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8230557	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2011
8230557	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2011
8230556	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2011
8230556	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2011
8230555	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2011
8230555	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2011
8230554	4	Arsenic	0.08	µg/m3	SW846 6010B	Filter	04/21/2011
8230554	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2011
8230553	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2011
8230553	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2011
8230552	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2011
8230552	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2011

SPECTRA LABORATORIES

  
Steve Hibbs, Laboratory Manager

a8/scj

5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

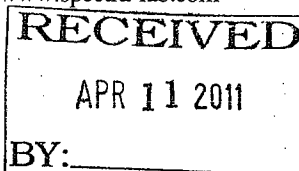


PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
AIR MONITORING		POINT RUSTON, LLC		AS.7D			
SAMPLERS (Signature)							
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		
4/20/11	S.G		X		8230557	1	X
4/20/11	CF-VI		X		8230556	1	X
4/20/11	CF-NW		X		8230555	1	X
4/21/11	SG		X		8230554	1	X
4/21/11	CF-VI		X		8230553	1	X
4/21/11	CF-NW		X		8230552	1	X
4/27/11 HI-VOLUME SAMPLER LOG						1 PAGE	
CFM DATA FOR LISTED FILTERS							
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
[Signature]		4/27/11 @ 1135		[Signature]		SPECTRA	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Shipped via: FedEx, UPS or Other DROP OFF	
[Signature]						Air Bill #	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks	
[Signature]							
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
[Signature]						<input type="checkbox"/> Parameter List with DTLs	
						<input type="checkbox"/> Cover Letter	
Split Samples: [ ] Accepted [ ] Declined							
Signature							



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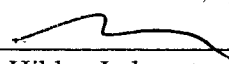
04/06/2011

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Ruston WY Remediation  
Sample Matrix: Air Cassette  
Date Sampled: 04/01/2011  
Date Received: 04/04/2011  
Spectra Project: 2011040051

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
040111-719	1	Arsenic	< 0.02	µg/m3	SW846 6020A
040111-719	1	Lead	< 0.02	µg/m3	SW846 6020A
040111-123	2	Arsenic	0.10	µg/m3	SW846 6020A
040111-123	2	Lead	0.25	µg/m3	SW846 6020A
040111-181	3	Arsenic	0.04	µg/m3	SW846 6020A
040111-181	3	Lead	0.04	µg/m3	SW846 6020A
040111-646	4	Arsenic	0.06	µg/m3	SW846 6020A
040111-646	4	Lead	0.23	µg/m3	SW846 6020A

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a7/scj

## CHAIN OF CUSTODY RECORD

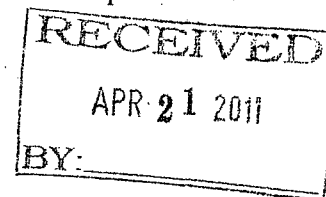
POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

20110410051

PROJ. NO <b>L.I.D.</b>		PROJECT NAME <b>RUSTON.WY REMEDIATION</b>				NO. OF CONTAINERS	AS.Pb				REMARKS
SAMPLERS: (Signature) <i>[Signature]</i>											
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER						
4/1/11			✓		040111-719	1	✓			1 µg/FILTER PRECISION	
4/1/11			✓		040111-123	1	✓				
4/1/11			✓		040111-181	1	✓				
4/1/11			✓		040111-1046	1	✓				
SAMPLE LOG INFOR SHEET 2 PAGES						PLEASE EMAIL RESULTS TO TIM@POINTRUSTON.COM					
Relinquished (Signature) <i>[Signature]</i>			Date/Time 4/4/11		Received by: (Signature) <i>[Signature]</i>		Lab <b>SPECTRIA</b>		Shipped via: FedEx, UPS or Other <b>DROPOFF</b> Air Bill # _____		
Relinquished (Signature) <i>[Signature]</i>			Date/Time		Received by: (Signature) <i>[Signature]</i>		Remarks 5.				
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature) 1		Date/Time		Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter		
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined						Signature _____					

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04/19/2011

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Ruston Way Remediation  
Sample Matrix: Air Cassette  
Date Sampled: 04/07/2011  
Date Received: 04/11/2011  
Spectra Project: 2011040194

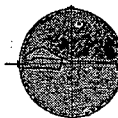
<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
040711-646	1	Arsenic	0.038	µg/m3	SW846 6020A
040711-646	1	Lead	0.058	µg/m3	SW846 6020A
040711-181	2	Arsenic	0.10	µg/m3	SW846 6020A
040711-181	2	Lead	0.28	µg/m3	SW846 6020A
040711-719	3	Arsenic	0.047	µg/m3	SW846 6020A
040711-719	3	Lead	0.039	µg/m3	SW846 6020A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/scj

5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083





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04/26/2011

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Ruston Way Remediation  
Sample Matrix: Air Cassette  
Date Sampled: 04/20/2011  
Date Received: 04/21/2011  
Spectra Project: 2011040428

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
042011-181	1	Arsenic	0.73	µg/m3	SW846 6020A
042011-181	1	Lead	0.50	µg/m3	SW846 6020A
042011-646	2	Arsenic	0.11	µg/m3	SW846 6020A
042011-646	2	Lead	0.15	µg/m3	SW846 6020A
042011-123	3	Arsenic	0.16	µg/m3	SW846 6020A
042011-123	3	Lead	0.16	µg/m3	SW846 6020A
042011-719	4	Arsenic	1.9	µg/m3	SW846 6020A
042011-719	4	Lead	1.3	µg/m3	SW846 6020A

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a7/scj



## CHAIN OF CUSTODY RECORD

POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

2011040428

PROJ. NO. L.I.D.		PROJECT NAME RUSTON WAY REMEDIATION		NO. OF CONTAINERS		REMARKS	
SAMPLERS (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
4/20/11			✓		042011-181	1	✓
4/20/11			✓		042011-646	1	✓
4/20/11			✓		042011-123	1	✓
4/20/11			✓		042011-719	1	✓
SAMPLE LOG INFO SHEET						2 PAGE	
						PLEASE EMAIL RESULTS TO: TIM2@POINTRUSTON.COM	
						THANK YOU	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples:						Signature	

Table 1. Summary of **April 2011** Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.072	14.30%	0.028	5.65%	0.020	4.00%
OSW2	0.043	8.60%	0.013	2.65%	0.008	1.50%
North Outfall	0.021	4.10%	0.014	2.80%	0.003	0.50%

\* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.



## ANALYTICAL SUMMARY REPORT

May 09, 2011

Point Ruston LLC  
5219 N Shirley St Ste 100  
Ruston, WA 98407-6599

Workorder No.: B11050198

Project Name: Tacoma Smelter Outfall Samples

Energy Laboratories Inc Billings MT received the following 12 samples for Point Ruston LLC on 5/3/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11050198-001	TSM0411411 North	04/11/11 11:20	05/03/11	Aqueous	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2
B11050198-002	TSM0411111 South	04/11/11 11:28	05/03/11	Aqueous	Same As Above
B11050198-003	TSM0411211 OSW-2	04/11/11 11:29	05/03/11	Aqueous	Same As Above
B11050198-004	TSM0411418 North	04/18/11 11:47	05/03/11	Aqueous	Same As Above
B11050198-005	TSM0411118 South	04/18/11 12:25	05/03/11	Aqueous	Same As Above
B11050198-006	TSM0411218 OSW-2	04/18/11 12:26	05/03/11	Aqueous	Same As Above
B11050198-007	TSM0411425 North	04/25/11 11:27	05/03/11	Aqueous	Same As Above
B11050198-008	TSM0411125 South	04/25/11 11:36	05/03/11	Aqueous	Same As Above
B11050198-009	TSM0411225 OSW-2	04/25/11 11:37	05/03/11	Aqueous	Same As Above
B11050198-010	TSM0511402 North	05/02/11 9:29	05/03/11	Aqueous	Same As Above
B11050198-011	TSM0511102 South	05/02/11 9:14	05/03/11	Aqueous	Same As Above
B11050198-012	TSM0511202 OSW-2	05/02/11 9:15	05/03/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

  
Supervisor, Wet Chemistry

Digitally signed by

Keri Conter

Date: 2011.05.09 14:32:21 -06:00



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-001  
**Client Sample ID:** TSM0411411 North

**Report Date:** 05/09/11  
**Collection Date:** 04/11/11 11:20  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.020	mg/L		0.003		E200.8	05/05/11 21:43 / tao
Copper	0.016	mg/L		0.001		E200.8	05/05/11 21:43 / tao
Zinc	ND	mg/L		0.01		E200.8	05/05/11 21:43 / tao

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-002  
**Client Sample ID:** TSM0411111 South

**Report Date:** 05/09/11  
**Collection Date:** 04/11/11 11:28  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.115	mg/L		0.003		E200.8	05/05/11 21:47 / tao
Copper	0.048	mg/L		0.001		E200.8	05/05/11 21:47 / tao
Zinc	0.03	mg/L		0.01		E200.8	05/05/11 21:47 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-003  
**Client Sample ID:** TSM0411211 OSW-2

**Report Date:** 05/09/11  
**Collection Date:** 04/11/11 11:29  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.049	mg/L		0.003		E200.8	05/05/11 21:52 / tao
Copper	0.017	mg/L		0.001		E200.8	05/05/11 21:52 / tao
Zinc	0.01	mg/L		0.01		E200.8	05/05/11 21:52 / tao

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-004  
**Client Sample ID:** TSM0411418 North

**Report Date:** 05/09/11  
**Collection Date:** 04/18/11 11:47  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.024	mg/L		0.003		E200.8	05/05/11 21:56 / tao
Copper	0.015	mg/L		0.001		E200.8	05/05/11 21:56 / tao
Zinc	0.01	mg/L		0.01		E200.8	05/05/11 21:56 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-005  
**Client Sample ID:** TSM0411118 South

**Report Date:** 05/09/11  
**Collection Date:** 04/18/11 12:25  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.063	mg/L		0.003		E200.8	05/05/11 22:00 / tao
Copper	0.025	mg/L		0.001		E200.8	05/05/11 22:00 / tao
Zinc	0.02	mg/L		0.01		E200.8	05/05/11 22:00 / tao

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-006  
**Client Sample ID:** TSM0411218 OSW-2

**Report Date:** 05/09/11  
**Collection Date:** 04/18/11 12:26  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.041	mg/L		0.003		E200.8	05/05/11 22:05 / tao
Copper	0.012	mg/L		0.001		E200.8	05/05/11 22:05 / tao
Zinc	0.01	mg/L		0.01		E200.8	05/05/11 22:05 / tao

**Report**  
**Definitions:** RL - Analyte reporting limit.  
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MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-007  
**Client Sample ID:** TSM0411425 North

**Report Date:** 05/09/11  
**Collection Date:** 04/25/11 11:27  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.020	mg/L		0.003		E200.8	05/05/11 22:09 / tao
Copper	0.013	mg/L		0.001		E200.8	05/05/11 22:09 / tao
Zinc	ND	mg/L		0.01		E200.8	05/05/11 22:09 / tao

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-008  
**Client Sample ID:** TSM0411125 South

**Report Date:** 05/09/11  
**Collection Date:** 04/25/11 11:36  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.050	mg/L		0.003		E200.8	05/05/11 22:13 / tao
Copper	0.020	mg/L		0.001		E200.8	05/05/11 22:13 / tao
Zinc	0.02	mg/L		0.01		E200.8	05/05/11 22:13 / tao

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-009  
**Client Sample ID:** TSM0411225 OSW-2

**Report Date:** 05/09/11  
**Collection Date:** 04/25/11 11:37  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.038	mg/L		0.003		E200.8	05/05/11 22:36 / tao
Copper	0.012	mg/L		0.001		E200.8	05/05/11 22:36 / tao
Zinc	ND	mg/L		0.01		E200.8	05/05/11 22:36 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-010  
**Client Sample ID:** TSM0511402 North

**Report Date:** 05/09/11  
**Collection Date:** 05/02/11 09:29  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.018	mg/L		0.003		E200.8	05/05/11 22:40 / tao
Copper	0.012	mg/L		0.001		E200.8	05/05/11 22:40 / tao
Zinc	ND	mg/L		0.01		E200.8	05/05/11 22:40 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-011  
**Client Sample ID:** TSM0511102 South

**Report Date:** 05/09/11  
**Collection Date:** 05/02/11 09:14  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.058	mg/L		0.003		E200.8	05/05/11 22:44 / tao
Copper	0.020	mg/L		0.001		E200.8	05/05/11 22:44 / tao
Zinc	0.01	mg/L		0.01		E200.8	05/05/11 22:44 / tao

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B11050198-012  
**Client Sample ID:** TSM0511202 OSW-2

**Report Date:** 05/09/11  
**Collection Date:** 05/02/11 09:15  
**Date Received:** 05/03/11  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.044	mg/L		0.003		E200.8	05/05/11 22:49 / tao
Copper	0.012	mg/L		0.001		E200.8	05/05/11 22:49 / tao
Zinc	0.01	mg/L		0.01		E200.8	05/05/11 22:49 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 05/09/11

Project: Tacoma Smelter Outfall Samples

Work Order: B11050198

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8					Analytical Run: ICPMS203-B_110505A				
Sample ID: QCS-101221A, 101222A,	Initial Calibration Verification Standard								05/05/11 15:33
Arsenic	0.0499	mg/L	0.0050	100	90	110			
Copper	0.0516	mg/L	0.010	103	90	110			
Zinc	0.0527	mg/L	0.010	105	90	110			
Method: E200.8					Batch: 53744				
Sample ID: MB-53744	Method Blank								Run: ICPMS203-B_110505A 05/05/11 20:51
Arsenic	4E-05	mg/L	3E-05						
Copper	0.0003	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS-53744	Laboratory Control Sample								Run: ICPMS203-B_110505A 05/05/11 20:56
Arsenic	0.491	mg/L	0.0050	98	85	115			
Copper	0.511	mg/L	0.010	102	85	115			
Zinc	0.497	mg/L	0.010	99	85	115			
Sample ID: B11050135-001BMS3	Sample Matrix Spike								Run: ICPMS203-B_110505A 05/05/11 21:09
Arsenic	0.506	mg/L	0.0050	101	70	130			
Copper	0.616	mg/L	0.010	103	70	130			
Zinc	0.613	mg/L	0.010	102	70	130			
Sample ID: B11050135-001BMSD3	Sample Matrix Spike Duplicate								Run: ICPMS203-B_110505A 05/05/11 21:12
Arsenic	0.500	mg/L	0.0050	100	70	130	1.2	20	
Copper	0.609	mg/L	0.010	102	70	130	1.0	20	
Zinc	0.581	mg/L	0.010	96	70	130	5.4	20	

## Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## Workorder Receipt Checklist



B11050198

Login completed by: Leslie S. Cadreau

Date Received: 5/3/2011

Reviewed by: BL2000\jlortz

Received by: krc

Reviewed Date: 5/3/2011

Carrier FedEx  
name:

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	10.6°C On Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

# POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

## CHAIN OF CUSTODY RECORD

PROJ. NO		PROJECT NAME																			
TACOMA SMELTER		OUTFALL SAMPLES																			
SAMPLERS' (Signature)																					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS															REMARKS
4/11/11	NORTH	11:20		✓	TSM0411411	1	✓														
4/11/11	SOUTH	11:28		✓	TSM0411111	1	✓														
4/11/11	OSN-2	11:29		✓	TSM0411211	1	✓														
4/18/11	NORTH	11:47		✓	TSM0411418	1	✓														
4/18/11	SOUTH	12:25		✓	TSM0411118	1	✓														
4/18/11	OSN-2	12:26		✓	TSM0411218	1	✓														
4/25/11	NORTH	11:27		✓	TSM0411425	1	✓														
4/25/11	SOUTH	11:36		✓	TSM0411125	1	✓														
4/25/11	OSN-2	11:37		✓	TSM0411225	1	✓														
5/2/11	NORTH	9:29		✓	TSM0511402	1	✓														
5/2/11	SOUTH	9:14		✓	TSM0511102	1	✓														
5/2/11	OSN-2	9:15		✓	TSM0511202	1	✓														
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other		Air Bill #											
[Signature]		5/2/11 FEDEX		[Signature]		ENERGY															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks															
[Signature]				[Signature]																	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:													
[Signature]				[Signature]		5/3/11 10:30		<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter													
								Split Samples:													
								[ ] Accepted [ ] Declined													